



Installation Guide: *Running Lights*

Tools Needed:

Wire Strippers
Vise Grips
Lighter or Heat Gun
Marine Goop
Electric Drill
1/2" bit
3/16" bit
Phillips head screwdriver
Rotozip or Dremel
Small Flat File
Sharpie Pen

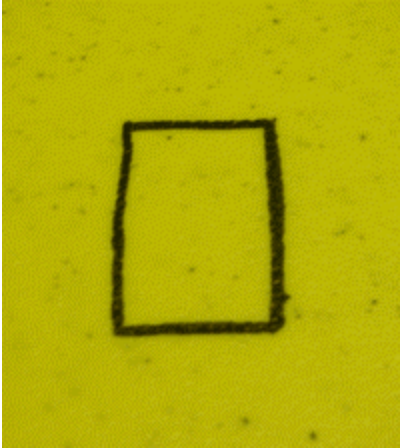
STEP 1: DETERMINE LOCATIONS

Decide on mounting locations for the battery, bow and stern lights as well as the on/off rocker switch. Make sure the rocker switch is in an area which allows access to the underside of it. Keep in mind you will be running wire inside the kayak from the lights to the switch. It may be necessary to have to use a snake (rigid piece of line such as a small metal cable) or gaff or similar device to reach the wiring from the lights.

Mark the center of each location where the wires will enter the kayak and mark with a sharpie pen. Drill a 1/2" hole on each mark. Next, trace the rocker switch using the following method:



- 1.) Mark two corners
- 2.) Lay switch on side and mark third corner (keep at 90 degrees)
- 3.) Repeat for fourth corner
- 4.) Verify that all sides are correct.



Cut out the rectangle and fine tune with a flat file. Do not push switch all the way in at this point.

STEP 2: INSTALL LIGHTS

- A.) Strip the ends of the pre-wired leads on the bow light by about ½” and crimp heat shrink butt connectors onto each end using the vise grips. Connect loose red and black wire (doesn’t matter which goes to which) onto the other ends and heat the connector with a lighter or heat gun until the heat shrink bubbles out the ends.
- B.) Run the wire through the hole, to the main access point of the kayak (center hatch, or most easily accessible area for working inside the boat) and cut the wires.
- C.) Attach loose wire to the leads of the stern light using the same method and cut at the same location. You may want to cut each length of wire slightly longer so that they overlap and allow for some freedom to work with.
- D.) Squeeze a gob of marine goop onto the hole for the bow light and attach the bow light by unscrewing the small screw on top, removing the housing and screwing the base onto the kayak with two stainless steel screws.
- E.) Attach the stern light in the same way. Make sure the wire coming out of the base of the stern light has a bit of slack, otherwise it will pull the wiring down inside the shaft of the light and will not make a connection with the bulb.

STEP 3: WIRE THE LIGHTS

- A.) Note whether the location of your rocker switch is toward the bow or toward the stern of the main access point where you have cut your wires.
- B.) Depending on the switch’s location, strip ½” off the ends of the appropriate wires. If it is toward the bow of the main access point, strip the wires coming from the bow light. Visa versa if it is toward the stern of this point.

Note: For the remainder of this step we will assume the rocker switch is toward the bow. If it is not, replace the word “bow” with “stern” in the following sections of this step.

- C.) Fold half the strands of the wires to the side and cut them off. Do the same to two lengths of loose wire and combine the loose red wire with the red bow light wire by twisting the stripped ends together (same for black). Slide both combined wires into a heat shrink butt connector and crimp.
- D.) Connect the other end of the butt connector of the red wire to the red stern light wire. For the black you will do the same thing to the stern wire so that you will end up with two wires out of each end of the connection. Cut this second connection at the location of your battery. Heat the connector.

STEP 4: WIRE THE SWITCH

- A.) Run the loose wires coming out of the three way connection you have just created, to the location of the switch and cut them there.
- B.) Strip the ends and slide ½” of shrink tubing onto both wires.
- C.) Crimp terminal connectors onto each wire using the vise grips. Slide the shrink tubing over the connection and heat.
- D.) Reach inside the kayak and stick the wires up through the hole you have cut for the switch. Connect the red wire to terminal number 3 on the rocker switch and the black to terminal number 7. The numbers are marked on the switch in very small lettering so get the reading glasses out.
- E.) Take a length of loose red wire and connect a terminal connector to the end of it and attach it to terminal 2 on the rocker switch. Run this wire to the location of your battery and cut it there.

STEP 5: CONNECT THE BATTERY

- A.) Take the fuse holder and cut the pre-wired loop in the middle. Insert fuse.
- B.) Hold one end of the fuse holder next to the end of the red wire and cut the red wire the length of the fuse holder.
- C.) Attach the fuse holder to the red wire using a heat shrink butt connector.
- D.) If you're putting your battery in a dry bag, connect two more terminal connectors to the end of your battery leads. If you're using a HookedOnKayaks battery box, remove the rubber boot on the male end of the connector. Slide it over your wiring and strip the ends of the wires. Back out the two set screws on the male plug just until you can no longer see them in the cylinders. Stick the stripped ends of the wires in the cylinders and screw the set screws back in. Gob some marine goop on the back of the connection and slide the rubber boot back over the plug.

This concludes your installation. Thank you for shopping with HookedOnKayaks.com. If you have any questions or problems please call us at (562) 592-0800 Good Luck!